

PATENT ABSTRACTS OF JAPAN

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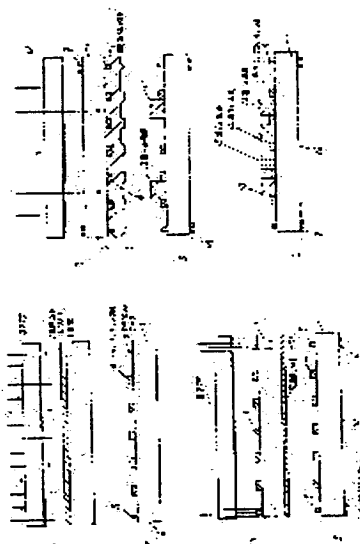
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(54) PRODUCTION OF COLOR FILTER

(57)Abstract:

PURPOSE: To form defectless and stable patterns by forming 2nd alignment marks in the positions relatively equal to a black matrix on the rear surface of a transparent base material, exposing a sample from the rear surface thereof through a photomask for picture elements aligned by 2nd alignment marks, then developing and curing the same.

CONSTITUTION: The sample 6 having the striped or orthogonal grid-shaped black matrix 4 and the alignment marks 5 is formed on the base material 1. The alignment marks 9 are then formed on the rear surface. Further, a photoresist 11 in which a 1st color material is dispersed is coated on the surface of the sample 10 in superposition on the black matrix 4. The photoresist is then irradiated with UV rays via the mask 12 for forming picture elements from the rear surface of the transparent base material 1 and is subjected to a developing stage and curing stage, by which the sample 14 having the 1st picture elements 13 is formed. The mask 12 for forming picture elements and the sample 10 are subjected to mask registration by the alignment marks 9. The good color filter consisting of the picture elements of ≥ 3 colors without having voids and the overlap of the picture elements is obtd. in this way.



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10の範囲に形成されたアライメントマター9は、
エラスチシタ合わせを行う。

五、第三〇圖表（例は褐色）、第三〇圖表
 （例は青）といつても第三〇圖表と例は青と工
 場を同視することによつて誤解される虞にほな
 り、その點に注意される。

光硬化型フタレリスタの材料としては、アクリロイ系感光樹脂より成る、例えば富士ヘントエレクトロニクス社（ノロニー）は、樹脂名「チー

ヴィス、黄色CR）、黄色レウス（黄褐色
 ヴィス、暗赤CR）、黄色レウス（黄
 ヱーヴィッド、暗赤CD）、黄色レウス（黄
 褐色ターペイTR、暗赤CR）、黄色レウス
 ト（黄褐色ターペイTK、暗赤CK）を用い
 た。試験用としては、1週間以内の「ア」が最
 多であった。

また、透明のフエルトレスト（例へば、父親用）
用として、黒クロム鏡）を使用して黒光鏡、鏡
によって着色する、いわゆる色鏡法によるカラー
フィルムに對しても同様に本表紙は有効である。

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【カラ・フィルム透明素材裏面ブラックマトリク
ス相対的位置アライメントマーク画像硬化欠陥安定パターンスト
ラスマス試験露光現像格子状試験色分散レジスト露ね
ラライバ直交格子状試験露光照射自撮け量なり3色】